

24 V DRIVE, FTP-607 SERIES HIGH SPEED THERMAL PRINTER 2-INCH TYPE EASY LOAD MECHANISM

FTP-627MCL103/113

OVERVIEW

The FTP-607MCL Series thermal printer (driven by 24VDC) provides ultra-high speed printing (100mm/s) for 2-inch and 3-inch wide paper. Our original platen removal mechanism allows easy paper loading and maintenance.

The FTP-607 MCL series can be used for a variety of applications, such as POS/ECR, Kiosk terminals, banking terminals, and measurement and medical equipment.



Compact size

Height 15.5 mm, width 70.4 mm, depth 33.0 mm for the 2 inch model. The 3-inch product has a width of 92.4mm.

High speed printing

It can print at 100 mm/s (800 dotlines/s) maximum by using Fujitsu's head drive control.

Easy loading mechanism (ELM) type

Our detachable platen removal mechanism improved paper loading and maintenance.

Multi-featuring diecast fame

By application of multi-featuring diecast frame, continous print by function of heat-sink, high ESD stand by function of earth frame and shock/vibration stand by function of solid frame are valid.

· High resolution printing

8 dots/mm of resolution printing is possible.



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■ PART NUMBERS

Name	Part Number	
Printer Mechanism		FTP-627MCL103 FTP-627MCL113
LSI		FTP-627CU201
Interface Board	parallel	FTP-627DCL218
	serial	FTP-627DSL238
Interface Cable (board to mechanism)	Centronics	FTP-628Y202
	RS-232C	FTP-628Y302
Power supply cable	logic	FTP-629Y401
	head, motor	FTP-629Y601

■ SPECIFICATIONS

Item		Specifications		
Part number		FTP-627MCL103	FTP-627MCL113	
Printing method		Thermal-sensitive line dot method		
Dot structure		384 dots/line		
Dot pitch (Horizontal)		0.125 mm (8 dots/mm)—Dot density		
Dot pitch (Vertical)		0.125 mm (8 dots/mm)—Line feed pitch		
Effective printing area		48 mm		
Number of columns		ANK 32 columns/line (max.12x 24	dot font)	
Paper width		58 mm ⁺⁰ 1		
Paper thickness		60 to 100 μ m (some paper in this paper characteristics)	range may not be used because of	
Printing Speed		Maximum 100mm/sec. (800 dot	ine/sec.)	
Character types		Alphanumeric, katakana: International and special characte JIS Kanji (supported when Kanji CG is mou		
Character, dimensions (H×W), number of columns	(1.5 × 3.0mm) (3.0 × 3.0mm) (1.0 × 2.0 mm) (2.0 × 2.0 mm)	12 × 24 dots, 32 columns: ANK 24 × 24 dots, 16 columns: ANK, k 8 × 16 dots, 48 columns: ANK 16 × 16 dots, 24 columns: ANK,	•	

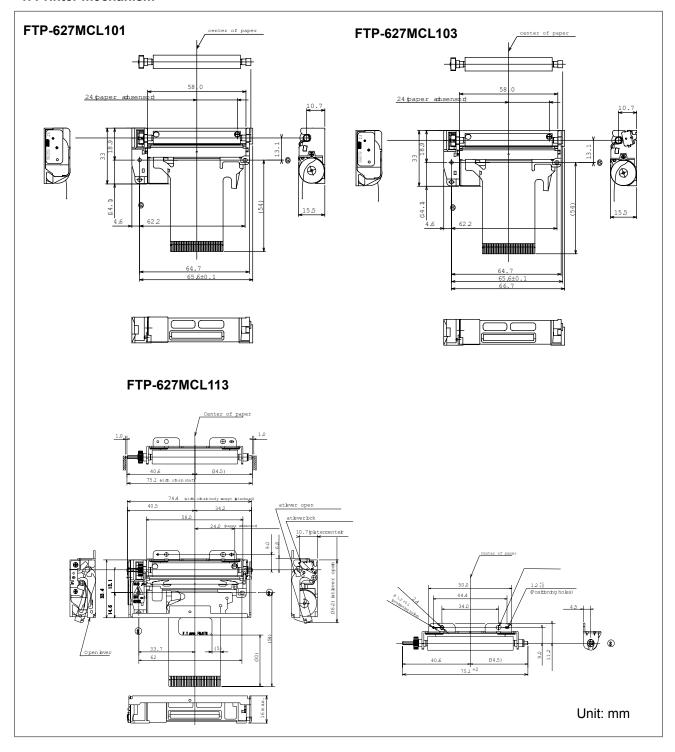
■ SPECIFICATIONS

ltem		Specification	
		FTP-627MCL103	FTP-627MCL113
Interface		Conforms to RS232C / Centronics	
Operating Voltage	For print head	24 VDC ±5%, 1.0 A average (1.5A peak) 24V, 25% printing ratio	
	For motor	24 VDC, 1 A maximum	
	For logic	5 VDC ± 5%, 0.1 A maximum	
Dimonoiono	Printer mechanism	72.4 x 33.0 x 15.5 mm (WxDxH)	75.0 x 33.4 x 15.5 mm (WxDxH)
Dimensions	Interface board	70 x 60 x 24 mm (WxDxH)	
Weight	Mechanism	Approximately 42g	Approximately 54g
vveigni	Interface board	Approximately 25g	
Life	Head	Pulse resistance: 50 million pulses/dot (under our standard conditions). Abrasion resistance: paper traveling distance 50km (print ratio: 25% or less)	
	Platen open	5,000 times	
	Operating temperature	0° C to +50° C*1	
Operating environment	Operating humidity	20 to 85% RH (no condensation)	
	Storage temperature	-20° C to +60° C (paper not included)	
	Storage humidity	5 to 95% RH (no condensation)	
Detection	Head temperature detection	Detected by thermistor	
function	Paper out/mark detection	Detected by photo-interrupter	
	Platen release detection	Detected by slide switch (103/383 only)	
		High Sensitive Paper	TF50KS-E4 (Nippon Paper)
Recommended thermal sensitive paper		Standard paper:	TF60KS-E(Nippon Paper), FTP-020PU001 (58mm), PD105R (Oji Paper), FTP- 020P0701 (58mm)
		Medium Life Paper	TF60KS-F1, FTP-020P0102 (58mm), PD170R (Oji Paper), P220VBB-1 Mitsubishi Paper)
		Long Life Paper	PD160R-N (Oji Paper), AFB-235 (Mitsubishi Paper), TP50KJ-R (Nippon Paper), HA220AA (Nippon Paper)

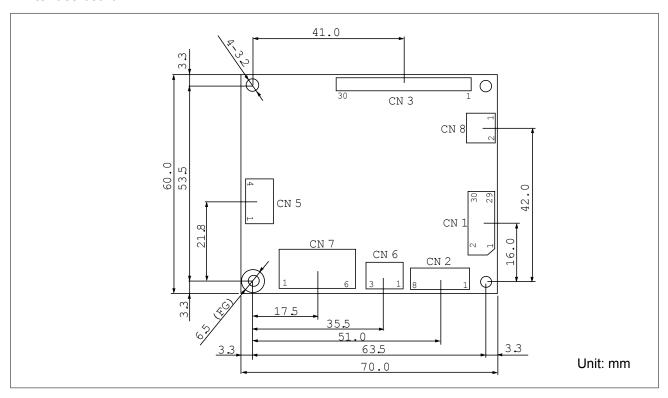
^{*1:} printing density assurance range, operation is possible at -25°C to +70°C

■ DIMENSIONS

1. Printer mechanism



2 Interface board



■ CONNECTOR PIN ASSIGNMENT OF MECHANISM (FPC)

1. Thermal Head

Part number : 52610-3090 Molex or equivalent

FTP-627MCL101/103 PIN ASSIGNMENT

No					
2 VSEN — Ground power supply for paper sensor 3 PHE O Photointerrupter (Emittor) 4 SW — Platen open switch 5 SW O Platen open switch 6 VH — Power supply for thermal head 8 VH — Power supply for thermal head 10 STB3 I Strobe 3 11 VDD — Power for logic 12 TH O Thermistor 13 GND — 14 GND — 15 GND — 16 GND — 17 GND — 18 GND — 19 STB1 I Strobe 1 20 STB2 I Strobe 2 21 LAT I Print data latch 22 CLK I Clock 23 NC — Not connec	No	Signal	I/O	Contents	
3	1	PHK	_	Photointerrupter (Cathode)	
4 SW — Platen open switch 5 SW O Platen open switch 6 VH — 7 VH — Power supply for thermal head 8 VH — Power supply for thermal head 9 DI I Print data in 10 STB3 I Strobe 3 11 VDD — Power for logic 12 TH O Thermistor 13 GND — 15 GND — 16 GND — 17 GND — 18 GND — 19 STB1 I Strobe 1 20 STB2 I Strobe 2 21 LAT I Print data latch 22 CLK I Clock 23 NC — Not connected 24 VH — 25 VH	2	VSEN		Ground power supply for paper sensor	
5 SW O Platen open switch 6 VH — 7 VH — 8 VH — 9 DI I 10 STB3 I 11 VDD — 10 STB3 I 11 VDD — 12 TH O 13 GND — 14 GND — 15 GND — 16 GND — 17 GND — 18 GND — 19 STB1 I Strobe 1 20 STB2 I Strobe 2 21 LAT I Print data latch 22 CLK I Clock 23 NC — Not connected 24 VH — 25 VH — 26 VH	3	PHE	0	Photointerrupter (Emittor)	
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26 VH — 27 MT/A I 28 MT/A I Stepping motor excitation signal	24	VH	_		
27 MT/A I 28 MT/A I Stepping motor excitation signal	25	VH	_	Power supply for thermal head	
28 MT/A I Stepping motor excitation signal	26	VH	_		
Stepping motor excitation signal	27	MT/A	I	Stepping motor excitation signal	
Stepping motor excitation signal	28	MT/A	I		
29 MT/B I I	29	MT/B	I		
30 MT/B I	30	MT/B			

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